Ordering number : ENN6907

Schottky Barrier Diode



15V, 1A Rectifier



Applications

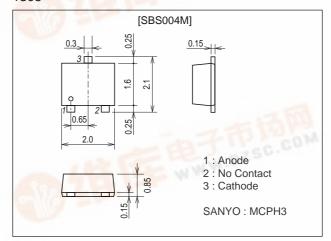
· High frequency rectification (switching regulators, converters, choppers).

Features

- · Low forward voltage (IF=0.5A, VF max=0.35V) (I_F=1.0A, V_F max=0.4V).
- Ultrasmall-sized package permitting applied sets to be made small and slim (mounting height 0.85mm).

Package Dimensions

unit: mm 1305



Specifications

Absolute Maximum Ratings at Ta=25°C

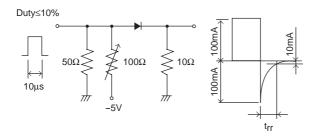
| Parameter | Symbol | Conditions | Ratings | Unit |
|--|--------|-------------------------|-------------|------|
| Repetitive Peak Reverse Voltage | VRRM | | 15 | V |
| Nonrepetitive Peak Reverse Surge Voltage | VRSM | | 15 | V |
| Average Output Current | lo | | 1 | А |
| Surge Forward Current | IFSM | 50Hz sine wave, 1 cycle | 10 | А |
| Junction Temperature | Tj | | -55 to +125 | °C |
| Storage Temperature | Tstg | | -55 to +125 | °C |

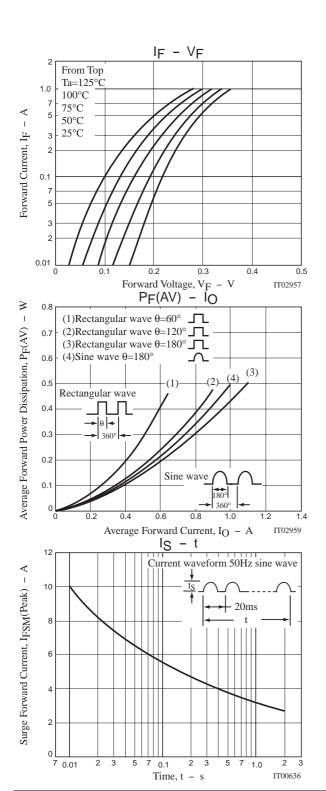
Electrical Characteristics at Ta=25°C

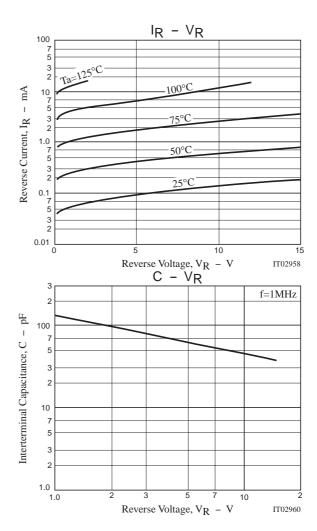
| Parameter | Symbol | Conditions | Ratings | | | Unit |
|---------------------------|------------------|--|---------|------|------|------|
| | Symbol | | min | typ | max | Unit |
| Reverse Voltage | VR | IR=1mA | 15 | | | V |
| Forward Voltage | V _F 1 | IF=0.5A | | 0.30 | 0.35 | V |
| | V _F 2 | IF=1A | | 0.35 | 0.40 | V |
| Reverse Current | IR | V _R =6V | | | 500 | μΑ |
| Interterminal Capacitance | С | V _R =10V, f=1MHz | | 42 | | pF |
| Reverse Recovery Time | t _{rr} | I _F =I _R =100mA, See specified Test Circuit. | | | 15 | ns |
| Thermal Resistance | Rth(j-a) | Mounted on a ceramic board (600mm²X0.8mm) | | 138 | W | °C/W |
| Marking : SA | · | _ / (4) (| | WWW | 0750 | |

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trr Test Circuit







SBS004M

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